1. A compound of formula I:

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where R₁ and R₂ are the same or different and signify hydrogen, optionally 10 substituted lower alkanoyl or aroyl, optionally substituted lower alkoxycarbonyl, or optionally substituted lower alkylcarbamoyl; R₃ signifies hydrogen or optionally substituted alkanoyl or aroyl group; R₄ signifies optionally substituted saturated or partially unsaturated lower alkyl or aryl group, or taken together with R₃ signifies an optionally substituted saturated or partially unsaturated carbocyclic ring; A 15 signifies oxygen or NR₅ group, where R₅ signifies NHR₆ where R₆ signifies optionally substituted lower alkyl or aryl group, or OR₇ group where R₇ signifies hydrogen, lower alkyl or lower alkanoyl, or A signifies an optionally substituted alkylidene when R₄ signifies OR₈ group where R₈ signifies optionally substituted lower alkanoyl or aroyl group, and pharmaceutically acceptable salts the eof.

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 A compound according to clain with the whole wherein R₄ is substituted with at least one aryl or heterocycloalkyl group.

3. A compound according to claim 1, comprising: 6,7-dihydroxy-8-nitro-3,4-5,6-dihydroxy-7-nitro-indan-1-one; 25 dihydro-2H-naphthalen-1-one; 2-(3,4dimethoxy-benzylidene)-6,7-dihydroxy-8, nitro-3,4-dihydro-2H-naphthalen-1-one; (3,4-dihydroxy-2-nitro-phenyl)-phenyl-methanone; 5,6-dihydroxy-7-nitro-indan-1one oxime; 2-(3,4-Dimethoxy-benzylidene)-5,6-dihydroxy-7-nitro-indan-1-one; 2M M

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(\dagger-dimethylamino-benzylidene)-5,6-dihydroxy-7-nitro-indan-1-one; 2-(4dimethylamino-benzylidene)-6,7-dihydroxy-8-nitro-3,4-dihydro-2H-naphthalen-1-5,6-dihydroxy-2-(4-hydroxy-3-methoxy-5-nitro-benzylidene)-7-nitro-indan-1one; 6,7-dihydroxy-2-(4-hydroxy-3-methoxy-5-nitro-benzylidene)-8-nitro-3,4one; 5 dihydro-2N-naphthalen-1-one; 2-(3,4-dihydroxy-benzylidene)-5,6-dihydroxy-7nitro-indan-\u00e1-one; 2-(3,4-dihydroxy-benzylidene)-6,7-dihydroxy-8-nitro-3,4-dihydro-2H-naphthalen-1-one; 1-(3,4-dihydroxy-2-nitro-phenyl)-3-phenyl-propan-1-one; 1-(3,4-dihydroxy-2,nitro-phenyl)-4-phenyl-butan-1-one; 2-(3,4-dihydroxy-5-nitrobenzylidene)-5,6-dihydroxy-7-nitro-indan-1-one; 1-(3,4-dihydroxy-2-nitro-phenyl)-10 pentan-1-one; 2,3-kjihydroxy-1-nitro-anthraquinone; butyric acid 6-butyryloxy-2nitro-3-(3-phenyl-propionyl)-phenyl ester; butyric acid 3-benzoyl-6-butyryloxy-2nitro-phenyl ester; cartonic acid 4-benzoyl-2-ethoxycarbonyloxy-3-nitro-phenyl ester; calthonic acid 2-ethoxycarbonyloxy-3-nitro-4-(3-phenylethyl propionyl)-phenyl ester carbonic 4,5-dibenzoyl-2ester; acid 15 ethoxycarbonyloxy-3-nitro-phanyl ester ethyl ester; 1-(3,4-dihydroxy-2-nitrophenyl)-2-phenyl-ethanone; acetic acid 3-acetoxy-7,7-dimethyl-1-nitro-8-oxo-5.6.7,8-tetrahydro-naphthalen-2-yl ester: 1-(3,4-dihydroxy-2-nitro-phenyl)-3morpholin-4-yl-propan-1-one; 1\(3,4-dihydroxy-2-nitro-phenyl)-3-piperidin-1-ylpropan-1-one; 1-(3,4-dihydroxy-2-nitr\u00e8-phenyl)-3-pyrrolidin-1-yl-propan-1-one; 5,6-20 dihydroxy-2-morpholin-4-ylmethyl-7-nitro-indan-1-one; 1-[3-(3,4-dihydroxy-2-nitrophenyl)-3-oxo-propyl]-piperidine-3-carboxylic acid diethylamide; 1-(3,4-dihydroxy-2-nitro-phenyl)-3-(3-methyl-piperidin-1-yl)-propan-1-one; 1-(3,4-dihydroxy-2-nitrophenyl)-3-(4-methyl-piperidin-1-yl)-propan-1-one; 1-(3,4-dihydroxy-2-nitro-phenyl)-3-(octahydro-quinolin-1-yl)-propan-1-one; 1-(3,4-dihydroxy-2-nitro-phenyl)-3-(3,5-25 dimethyl-piperidin-1-yl)-propan-1-one; 3-(4-benzyl-piperidin-1-yl)-1-(3,4-dihydroxy-2-nitro-phenyl)-propan-1-one; 1-(3,4-dihydroxy\2-nitro-phenyl)-3-[4-(4-methoxyphenyl)-piperazin-1-yl]-propan-1-one; 1-(3,4-dihydroxy-2-nitro-phenyl)-3-[4-(3trifluoromethyl-phenyl)-piperazin-1-yl]-propan-1-one; 1-(3,4-dihydroxy-2-nitrophenyl)-3-(4-propyl-piperazin-1-yl)-propan-1-one; acetic acid 6-acetoxy-2-nitro-3-30 (3-phenyl-acryloyl)-phenyl ester1-(3,4-Dihydroxy-2-nitro-phenyl)-3-phenyl-1-(3,4-dihydroxy-2-nitro-phenyl)-2-morpholin-4-yl-ethanone; propenone; dihydroxy-7-nitro-2-[4-(3-trifluoromethyl-phenyl)-piperazin-1-ylmethyl]-indan-1-one; 5,6-dihydroxy-7-nitro-2-(4-phenyl-piperazin-1-ylmethyl)-indan\1-one; acetic acid 6Sub A2

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acetoxy-2-nitro-3 phenylacetyl-phenyl ester; acetic acid 2-acetoxy-4-(1-acetoxy-2-phenyl-vinyl)-3-nitro-phenyl ester; butyric acid 6-butyryloxy-2-nitro-3-phenylacetyl-phenyl ester; carbonic acid 2-ethoxycarbonyloxy-3-nitro-4-phenylacetyl-phenyl ester ethyl ester; acetic acid 6-acetoxy-2-nitro-3-(4-phenyl-butyryl)-phenyl ester; butyric acid 6-butyryloxy-2-nitro-3-(4-phenyl-butyryl)-phenyl ester or carbonic acid 2-ethoxycarbonyloxy-3-nitro-4-(4-phenyl-butyryl)-phenyl ester ethyl ester.

- 4. A method of treating a subject afflicted by some central and peripheral nervous system disorders, where a reduction in the O-methylation of catecholamines may be of therapeutical benefit, such as mood disorders, Parkinson's disease and parkinsonian disorders, gastrointestinal disturbances, edema formation states and hypertension, which comprises administering to the subject an amount of a compound according to claim 1 effective to treat said diseases in the subject.
- 15 5. A pharmaceutical composition comprising a therapeutically effective amount of a compound according to claim 1 in combination with a pharmaceutically acceptable carrier.
- 6. The use of a compound according to claim 1 in the manufacture of a medication for treating a subject afflicted by central or peripheral nervous system disorders.
 - 7. The use of a compound according to claim 1 in the manufacture of a medication for treating mood disorders, Parkinson's disease and parkinsonian disorders, gastrointestinal disturbances, edema formation states and hypertension.

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8. The use of a compound according to claim 1 in therapy.

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9. The use of a compound according to claim 1 in the manufacture of a medicament for use as a COMT inhibitor.

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